

Mr. Stephen Dixon  
Delphi Delco Electronics Systems  
2033 East Boulevard  
P.O. Box 9005, M.S. A107  
Kokomo, Indiana 46904-9005

Re: Minor Source Modification No:  
**067-12263-00061**

Dear Mr. Dixon:

Delphi Automotive Systems applied for a Part 70 operating permit on September 4, 1996 for the manufacturing of electronic components and accessories, and to provide coating, engraving, and allied services to customers. An application to modify the source was received on May 11, 2000. Pursuant to 326 IAC 2-7-10.5 the following emission units are approved for construction at the source:

- (a) Four (4) automated select conformal coaters, with a total maximum throughput of 222 pounds of populated circuit boards per hour, that exhaust to Stack 7-R21-1, for the Chevy Uplevel (C-UL) Line #1.
- (b) Four (4) automated select conformal coaters, with a total maximum throughput of 222 pounds of populated circuit boards per hour, that exhaust to Stack 7-S21-1, for the Chevy Uplevel (C-UL) Line #2.
- (c) Four (4) automated select conformal coaters, with a total maximum throughput of 222 pounds of populated circuit boards per hour, that exhaust to Stack 7-R19-1, for the Chevy Base (CBase) Line.

The proposed Minor Source Modification approval will be incorporated into the pending Part 70 permit application pursuant to 326 IAC 2-7-10.5(l)(3). The source may begin operation upon issuance of the source modification approval.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter call (800) 451-6027, press 0 and ask for Melissa Groch or extension 3-8397, or dial (317)233-8397.

Sincerely,

Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Management

Attachments  
MMG

cc: File - Howard County  
U.S. EPA, Region V  
Howard County Health Department  
Air Compliance Section Inspector- Ryan Hillman  
Compliance Data Section - Karen Nowak  
Administrative and Development - Janet Mobley  
Technical Support and Modeling - Michele Boner  
Title V Permit File: T067-6505-00061

# **PART 70 MINOR SOURCE MODIFICATION OFFICE OF AIR MANAGEMENT**

**Delphi Delco Electronics Corporation  
2033 East Boulevard  
Kokomo, Indiana 46904**

(herein known as the Permittee) is hereby authorized to construct and operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this approval.

This approval is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Source Modification No.: 067-12263-00061	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

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## SECTION A

## SOURCE SUMMARY

This approval is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). The information describing the emission units contained in conditions A.1 through A.2 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this approval pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee manufactures electronic components and accessories, and provides coating, and allied services to customers.

Responsible Official: David Hendrickson, Managing Director  
Source Address: 2033 East Boulevard, Kokomo, Indiana, 46904  
Mailing Address: P.O. Box 9005, M.S. 8103  
Phone Number: 765/451-8440  
SIC Code: 3679  
County Location: Howard  
County Status: Attainment for all criteria pollutants  
Source Status: Part 70 Permit Program  
Major Source, under PSD Rules;  
Major Source, Section 112 of the Clean Air Act

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source is approved to construct and operate the following emission units:

- (a) Four (4) automated select conformal coaters, with a total maximum throughput of 222 pounds of populated circuit boards per hour, that exhaust to Stack 7-R21-1, for the Chevy Uplevel (C-UL) Line #1.
- (b) Four (4) automated select conformal coaters, with a total maximum throughput of 222 pounds of populated circuit boards per hour, that exhaust to Stack 7-S21-1, for the Chevy Uplevel (C-UL) Line #2.
- (c) Four (4) automated select conformal coaters, with a total maximum throughput of 222 pounds of populated circuit boards per hour, that exhaust to Stack 7-R19-1, for the Chevy Base (CBase) Line.

### A.3 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22); and
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

## SECTION B

## GENERAL CONSTRUCTION CONDITIONS

### B.1 Permit No Defense [IC 13]

This approval to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

### B.2 Definitions [326 IAC 2-7-1]

Terms in this approval shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2 and 326 IAC 2-7 shall prevail.

### B.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

### B.4 Revocation of Permits [326 IAC 2-1.1-9(5)][326 IAC 2-7-10.5(i)]

Pursuant to 326 IAC 2-1.1-9(5)(Revocation of Permits), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

## **SECTION C GENERAL OPERATION CONDITIONS**

### **C.1 Certification [326 IAC 2-7-4(f)][326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]**

- (a) Where specifically designated by this approval or required by an applicable requirement, any application form, report, or compliance certification submitted under this approval shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

### **C.2 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]**

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12 whenever the Permittee seeks to amend or modify this approval.
- (b) Any application requesting an amendment or modification of this approval shall be submitted to:  
  
Indiana Department of Environmental Management  
Permits Branch, Office of Air Management  
100 North Senate Avenue, P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
  
Any such application should be certified by the "responsible official" as defined by 326 IAC 2-7-1(34) only if a certification is required by the terms of the applicable rule.
- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

### **C.3 Opacity [326 IAC 5-1]**

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this approval:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

## **Testing Requirements [326 IAC 2-7-6(1)]**

### **C.4 Performance Testing [326 IAC 3-6][326 IAC 2-1.1-11]**

- (a) Compliance testing on new emission units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this approval, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this approval, shall be submitted to:

Indiana Department of Environmental Management  
Compliance Data Section, Office of Air Management  
100 North Senate Avenue, P. O. Box 6015

Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAM if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

### **Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]**

#### **C.5 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]**

Compliance with applicable requirements shall be documented as required by this approval. All monitoring and record keeping requirements shall be implemented when operation begins. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

### **Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]**

#### **C.6 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5] [326 IAC 2-7-6]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this approval exceed the level specified in any condition of this approval, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate approval conditions may be grounds for immediate revocation of the approval to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

### **Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

#### **C.7 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]**

- (a) With the exception of performance tests conducted in accordance with Section C- Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this approval shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this approval is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this approval.

- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.8 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAM, representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
  - (1) The date, place, and time of sampling or measurements;
  - (2) The dates analyses were performed;
  - (3) The company or entity performing the analyses;
  - (4) The analytic techniques or methods used;
  - (5) The results of such analyses; and
  - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
  - (1) Copies of all reports required by this approval;
  - (2) All original strip chart recordings for continuous monitoring instrumentation; and
  - (3) All calibration and maintenance records.
- (d) All record keeping requirements not already legally required shall be implemented upon approval issuance.

## SECTION D.1

## FACILITY OPERATION CONDITIONS

### Facility Description [326 IAC 2-7-5(15)]:

- (a) Four (4) automated select conformal coaters, with a total maximum throughput of 222 pounds of populated circuit boards per hour, that exhaust to Stack 7-R21-1, for the Chevy Uplevel (C-UL) Line #1.
- (b) Four (4) automated select conformal coaters, with a total maximum throughput of 222 pounds of populated circuit boards per hour, that exhaust to Stack 7-S21-1, for the Chevy Uplevel (C-UL) Line #2.
- (c) Four (4) automated select conformal coaters, with a total maximum throughput of 222 pounds of populated circuit boards per hour, that exhaust to Stack 7-R19-1, for the Chevy Base (CBase) Line.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

### Emission Limitations and Standards [326 IAC 2-7-5(1)]

#### D.1.1 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to Exemption 067-11280-00061, issued October 7, 1999, and 326 IAC 6-3-2 (Process Operations), the allowable PM emission rate from each coater shall not exceed 0.94 pounds per hour when operating at a process weight rate of 222 pounds per hour. The pounds per hour limitation was calculated using the following equation:

Interpolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and  
P = process weight rate in tons per hour

#### D.1.2 Volatile Organic Compounds (VOCs) [326 IAC 8-1-6]

Any change or modification that increases the VOC content delivered to the applicators of the coaters to twenty-five (25) tons or more per twelve (12) consecutive month period shall cause this operation to be subject to the requirements of 326 IAC 8-1-6 (New Facilities: General Reduction Requirements).

### Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

#### D.1.3 Record Keeping Requirements

- (a) To document compliance with Condition D.1.2, the Permittee shall maintain records in accordance with (1) through (6) below. Records maintained for (1) through (6) shall be taken monthly and shall be complete and sufficient to establish compliance with Condition D.1.2.
  - (1) The amount and VOC content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;
  - (2) A log of the dates of use;
  - (3) The volume weighted VOC content of the coatings used for each month;
  - (4) The cleanup solvent usage for each month;
  - (5) The total VOC usage for each month; and
  - (6) The weight of VOCs emitted for each compliance period.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR MANAGEMENT  
COMPLIANCE DATA SECTION**

**PART 70 SOURCE MODIFICATION  
CERTIFICATION**

Source Name: Delphi Delco Electronics Corporation  
Source Address: 2033 East Boulevard, Kokomo, Indiana 46904  
Mailing Address: P.O. Box 9005, M.S. A107, Kokomo, Indiana 46904-9005  
Source Modification No.: 067-12263-00061

**This certification shall be included when submitting monitoring, testing reports/results  
or other documents as required by this approval.**

Please check what document is being certified:

- 9 Test Result (specify) \_\_\_\_\_  
9 Report (specify) \_\_\_\_\_  
9 Notification (specify) \_\_\_\_\_  
9 Other (specify) \_\_\_\_\_

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

## Indiana Department of Environmental Management Office of Air Management

### Technical Support Document (TSD) for a Part 70 Minor Source Modification

#### Source Background and Description

**Source Name:** Delphi Delco Electronics Corporation  
**Source Location:** 2033 East Boulevard, Kokomo, Indiana 46904  
**County:** Howard  
**SIC Code:** 3679  
**Minor Source Modification No.:** 067-12263-00061  
**Permit Reviewer:** Melissa Groch

The Office of Air Management (OAM) has reviewed a modification application from Delphi Delco Electronics Corporation relating to the following emission units:

- (a) Four (4) automated select conformal coaters, with a total maximum throughput of 222 pounds of populated circuit boards per hour, that exhaust to Stack 7-R21-1, for the Chevy Uplevel (C-UL) Line #1.
- (b) Four (4) automated select conformal coaters, with a total maximum throughput of 222 pounds of populated circuit boards per hour, that exhaust to Stack 7-S21-1, for the Chevy Uplevel (C-UL) Line #2.
- (c) Four (4) automated select conformal coaters, with a total maximum throughput of 222 pounds of populated circuit boards per hour, that exhaust to Stack 7-R19-1, for the Chevy Base (CBase) Line.

#### History

On May 11, 2000, Delphi Delco Electronics Corporation submitted an application to the OAM requesting to modify previously permitted manual brush coat stations which were approved under Registration 067-10200 (issued October 29, 1998) and Exemption 067-11280 (issued October 7, 1999). The manual brush coat stations are being converted to automatic conformal coating units which allow more circuit board surface area to be coated.

#### Enforcement Issue

There are no enforcement actions pending.

#### Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
7-R19-1	dispense coat applicator, and 4 automatic select conformal coaters- C-Base	34	1.5	4,800	70
7-R21-1	dispense coat applicator, and 4 automatic select conformal coaters- C-Level #1	34	1.5	4,800	70
7-S21-1	dispense coat applicator, and 4 automatic select conformal coaters- C-Level #2	34	1.5	4,800	70

## Recommendation

The staff recommends to the Commissioner that the Part 70 Minor Source Modification be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

A complete application for the purposes of this review was received on May 11, 2000.

## Emission Calculations

The calculations submitted by the applicant have been verified and found to be accurate and correct. These calculations are provided in Appendix A of this document, page 1 of 1.

## Potential To Emit of Modification

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA.”

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Pollutant	Potential To Emit (tons/year)
PM	0.19
PM-10	0.19
VOC	14.83

## Justification for Modification

The Part 70 Operating permit is being modified through a Part 70 Minor Source Modification. This modification is being performed pursuant to 326 IAC 2-7-10.5(4)(b) because the potential to emit of VOC is less than 25 tons per year and equal to or greater than 10 tons per year.

## County Attainment Status

The source is located in Howard County.

Pollutant	Status
PM-10	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
Ozone	attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO<sub>x</sub>) are precursors for the formation of ozone. Therefore, VOC and NO<sub>x</sub> emissions are considered when evaluating the rule applicability relating to the ozone standards. Howard County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO<sub>x</sub> emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (b) Howard County has been classified as attainment or unclassifiable for PM<sub>10</sub>. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

### Potential to Emit of Modification After Issuance

There are no air pollution controls on the process lines being reviewed in this document.

This modification to an existing major stationary source is not major because the emissions increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

Pollutant	PM (ton/yr)	PM10 (ton/yr)	SO <sub>2</sub> (ton/yr)	VOC (ton/yr)	CO (ton/yr)	NO <sub>x</sub> (ton/yr)
Proposed Modification	0.19	0	0	14.83	0	0
PSD Significant Level	25	15	40	40	100	40

### Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this proposed modification.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this proposed modification.

### State Rule Applicability - Entire Source

#### 326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than one hundred (100) tons per year of VOC. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by July 1 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

#### 326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

### State Rule Applicability - Individual Facilities

#### 326 IAC 6-3-2 (Process Operations)

Pursuant to Exemption 067-11280-00061, issued on October 7, 1999, and 326 IAC 6-3-2, the particulate matter (PM) from each of the assembly module operations shall be limited by the following:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

These facilities are in compliance with the requirements of 326 IAC 6-3 because for each assembly module line the maximum process weight rate is 222 pounds per hour, the allowable PM emission rate for each line is 0.94 lb/hr, and the potential PM from each line is 0.003 lb/hr.

**326 IAC 8-1-6 (VOC General Reduction Requirements)**

326 IAC 8-1-6 does not apply to these facilities because the VOC emissions from each unit are less than 25 tons per year.

No other 326 IAC 8 rules apply.

**Air Toxic Emissions**

Indiana presently requests applicants to provide information on emissions of the 188 hazardous air pollutants (HAPs) set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Part 70 Application Form GSD-08.

None of the listed air toxics will be emitted from these twelve (12) new automated select conformal coaters.

**Conclusion**

The construction of this proposed modification shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification No. 067-12263-00061.

# Appendix A: Emission Calculations

Company Name: Delphi Delco Electronics Systems  
Address City IN Zip: 2033 East Boulevard, Kokomo, Indiana 46904  
Permit/Plt ID: 067-12263-00061  
Reviewer: Melissa Groch

## Potential Emissions from the 12 Automatic Conformal Coaters

Pollutant Emission Factor	Select Coat	All Equipment		
	VOC 0.00358 lb/board	Potential VOC Emissions	Potential Lead Emissions	Potential PM Emissions
<b>Chevy Uplevel Line #1</b>				
Max Throughput, boards/hr	222			
Potential Emissions, lbs/hr	0.795	ERR	ERR	ERR
Potential Emissions, lbs/day	19.074	ERR	ERR	ERR
Potential Emissions, tons/yr	3.481	ERR	ERR	ERR
<b>Chevy Uplevel Line #2</b>				
Max Throughput, boards/hr	222			
Potential Emissions, lbs/hr	0.7948	ERR	ERR	ERR
Potential Emissions, lbs/day	19.074	ERR	ERR	ERR
Potential Emissions, tons/yr	3.481	ERR	ERR	ERR
<b>Chevy Base Module</b>				
Max Throughput, boards/hr	222			
Potential Emissions, lbs/hr	0.795	ERR	ERR	ERR
Potential Emissions, lbs/day	19.074	ERR	ERR	ERR
Potential Emissions, tons/yr	3.481	ERR	ERR	ERR
<b>Total Potential Emissions with Line #2 and revised throughput rates:</b>	lbs/hr	ERR	ERR	ERR
	lbs/day	ERR	ERR	ERR
	tons/yr (A)	<b>ERR</b>	<b>ERR</b>	<b>ERR</b>
<b>Total Potential Emissions as originally registered with two lines:</b>	tons/yr (B)	<b>9.88</b>	<b>0.00023</b>	<b>0.0366</b>
<b>Potential increase in emissions from this Exemption: (A) - (B):</b>	tons/yr	<b>0.68</b>	<b>0.00002</b>	<b>0.0026</b>

Emission factors for the solder reflow oven and wave solder machine are based on stack test results performed in December 1994. The VOC emission factor from the dispense coat operation is based on the production specifications that require a bead of coating (0.0215 cubic inches per board) and MSDS information. The VOC

emission factor for the conformal coaters is based on the MSDS information and volume applied to similar operations at the source.